

PAGE: 1

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/474,980

DATE: 04/24/2000
TIME: 14:53:52

(First 5 Pages Attached)

INPUT SET: S35372.raw

HS

1

SEQUENCE LISTING

2

3 (1) GENERAL INFORMATION:

4

5 (i) APPLICANT: JOHNSON, EUGENE M
6 MILBRANDT, JEFFREY D
7 KOTZBAUER, PAUL T
8 LAMPE, PATRICIA A
9 KLEIN, ROBERT
10 DESAUVAGE, FRED

11

12 (ii) TITLE OF INVENTION: PERSEPHIN AND RELATED GROWTH FACTOR

13

14 (iii) NUMBER OF SEQUENCES: 239

15

16 (iv) CORRESPONDENCE ADDRESS:

17 (A) ADDRESSEE: HOWELL & HAVERKAMP, L.C.
18 (B) STREET: 7733 FORSYTH BOULEVARD, SUITE 1400
19 (C) CITY: ST. LOUIS
20 (D) STATE: MO
21 (E) COUNTRY: USA
22 (F) ZIP: 63105

23

24 (v) COMPUTER READABLE FORM:

25 (A) MEDIUM TYPE: Floppy disk
26 (B) COMPUTER: IBM PC compatible
27 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
28 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30

29

30 (vi) CURRENT APPLICATION DATA:

31 (A) APPLICATION NUMBER:US/09/474,980
32 (B) FILING DATE:
33 (C) CLASSIFICATION:

34

35 (vii) PRIOR APPLICATION DATA:

36 (A) APPLICATION NUMBER: 08/931,858
37 (B) FILING DATE:

38

39 (viii) ATTORNEY/AGENT INFORMATION:

40 (A) NAME: HOLLAND, DONALD R.
41 (B) REGISTRATION NUMBER: 35,197
42 (C) REFERENCE/DOCKET NUMBER: 971486

43

44 (ix) TELECOMMUNICATION INFORMATION:

45 (A) TELEPHONE: 314-727-5188
46 (B) TELEFAX: 314-727-6092

47

48

49 (2) INFORMATION FOR SEQ ID NO:1:

50

ENTERED

**RAW SEQUENCE LISTING
PATENT APPLICATION US/09/474,980**DATE: 04/24/2000
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51 (i) SEQUENCE CHARACTERISTICS:
52 (A) LENGTH: 102 amino acids
53 (B) TYPE: amino acid
54 (C) STRANDEDNESS:
55 (D) TOPOLOGY: linear
56
57 (ii) MOLECULE TYPE: protein
58
59
60
61 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
62
63 Ala Arg Leu Gly Ala Arg Pro Cys Gly Leu Arg Glu Leu Glu Val Arg
64 1 5 10 15
65
66 Val Ser Glu Leu Gly Leu Gly Tyr Ala Ser Asp Glu Thr Val Leu Phe
67 20 25 30
68
69
70
71 Arg Tyr Cys Ala Gly Ala Cys Glu Ala Ala Ala Arg Val Tyr Asp Leu
72 35 40 45
73
74 Gly Leu Arg Arg Leu Arg Gln Arg Arg Arg Leu Arg Arg Glu Arg Val
75 50 55 60
76
77 Arg Ala Gln Pro Cys Cys Arg Pro Thr Ala Tyr Glu Asp Glu Val Ser
78 65 70 75 80
79
80 Phe Leu Asp Ala His Ser Arg Tyr His Thr Val His Glu Leu Ser Ala
81 85 90 95
82
83 Arg Glu Cys Ala Cys Val
84 100
85
86 (2) INFORMATION FOR SEQ ID NO:2:
87
88 (i) SEQUENCE CHARACTERISTICS:
89 (A) LENGTH: 100 amino acids
90 (B) TYPE: amino acid
91 (C) STRANDEDNESS:
92 (D) TOPOLOGY: linear
93
94 (ii) MOLECULE TYPE: protein
95
96
97
98 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
99
100 Pro Gly Ala Arg Pro Cys Gly Leu Arg Glu Leu Glu Val Arg Val Ser

INPUT SET: S35372.raw

101 1 5 10 15
102 Glu Leu Gly Leu Gly Tyr Thr Ser Asp Glu Thr Val Leu Phe Arg Tyr
103 20 25 30
104
105 Cys Ala Gly Ala Cys Glu Ala Ala Ile Arg Ile Tyr Asp Leu Gly Leu
106 35 40 45
107
108 Arg Arg Leu Arg Gln Arg Arg Arg Val Arg Arg Glu Arg Ala Arg Ala
109 50 55 60
110
111 His Pro Cys Cys Arg Pro Thr Ala Tyr Glu Asp Glu Val Ser Phe Leu
112 65 70 75 80
113
114 Asp Val His Ser Arg Tyr His Thr Leu Gln Glu Leu Ser Ala Arg Glu
115 85 90 95
116
117 Cys Ala Cys Val
118 100
119
120
121 (2) INFORMATION FOR SEQ ID NO:3:
122
123 (i) SEQUENCE CHARACTERISTICS:
124 (A) LENGTH: 16 amino acids
125 (B) TYPE: amino acid
126 (C) STRANDEDNESS:
127 (D) TOPOLOGY: linear
128
129 (ii) MOLECULE TYPE: peptide
130
131
132 (ix) FEATURE:
133 (A) NAME/KEY: Modified-site
134 (B) LOCATION: 6
135 (D) OTHER INFORMATION: /note= "ANY AMINO ACID"
136
137
138 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
139
140 Ser Gly Ala Arg Pro Xaa Gly Leu Arg Glu Leu Glu Val Ser Val Ser
141 1 5 10 15
142
143
144 (2) INFORMATION FOR SEQ ID NO:4:
145
146 (i) SEQUENCE CHARACTERISTICS:
147 (A) LENGTH: 10 amino acids
148 (B) TYPE: amino acid
149 (C) STRANDEDNESS:
150 (D) TOPOLOGY: linear

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PATENT APPLICATION US/09/474,980DATE: 04/24/2000
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INPUT SET: S35372.raw

151
152 (ii) MOLECULE TYPE: peptide
153
154
155 (ix) FEATURE:
156 (A) NAME/KEY: Modified-site
157 (B) LOCATION: 1
158 (D) OTHER INFORMATION: /note= "ANY AMINO ACID"
159
160 (ix) FEATURE:
161 (A) NAME/KEY: Modified-site
162 (B) LOCATION: 6
163 (D) OTHER INFORMATION: /note= "SERINE OR CYSTEINE"
164
165
166 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
167
168 Xaa Cys Ala Gly Ala Xaa Glu Ala Ala Val
169 1 5 10
170
171 (2) INFORMATION FOR SEQ ID NO:5:
172
173 (i) SEQUENCE CHARACTERISTICS:
174 (A) LENGTH: 23 amino acids
175 (B) TYPE: amino acid
176 (C) STRANDEDNESS:
177 (D) TOPOLOGY: linear
178
179 (ii) MOLECULE TYPE: peptide
180
181
182 (ix) FEATURE:
183 (A) NAME/KEY: Modified-site
184 (B) LOCATION: 1
185 (D) OTHER INFORMATION: /note= "ANY AMINO ACID"
186
187 (ix) FEATURE:
188 (A) NAME/KEY: Modified-site
189 (B) LOCATION: 2
190 (D) OTHER INFORMATION: /note= "ANY AMINO ACID"
191
192 (ix) FEATURE:
193 (A) NAME/KEY: Modified-site
194 (B) LOCATION: 17
195 (D) OTHER INFORMATION: /note= "GLUTAMINE OR GLUTAMIC ACID"
196
197
198 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:
199
200 Xaa Xaa Val Glu Ala Lys Pro Cys Cys Gly Pro Thr Ala Tyr Glu Asp

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201 1 5 10 15

202
203 Xaa Val Ser Phe Leu Ser Val
204 20205
206 (2) INFORMATION FOR SEQ ID NO:6:207
208 (i) SEQUENCE CHARACTERISTICS:
209 (A) LENGTH: 10 amino acids
210 (B) TYPE: amino acid
211 (C) STRANDEDNESS:
212 (D) TOPOLOGY: linear213
214 (ii) MOLECULE TYPE: peptide

215

216

217

218 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

219
220 Tyr His Thr Leu Gln Glu Leu Ser Ala Arg
221 1 5 10222
223 (2) INFORMATION FOR SEQ ID NO:7:224
225 (i) SEQUENCE CHARACTERISTICS:
226 (A) LENGTH: 197 amino acids
227 (B) TYPE: amino acid
228 (C) STRANDEDNESS:
229 (D) TOPOLOGY: linear230
231 (ii) MOLECULE TYPE: protein

232

233

234

235 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

236
237 Met Gln Arg Trp Lys Ala Ala Ala Leu Ala Ser Val Leu Cys Ser Ser
238 1 5 10 15239
240 Val Leu Ser Ile Trp Met Cys Arg Glu Gly Leu Leu Leu Ser His Arg
241 20 25 30242
243 Leu Gly Pro Ala Leu Val Pro Leu His Arg Leu Pro Arg Thr Leu Asp
244 35 40 45245
246 Ala Arg Ile Ala Arg Leu Ala Gln Tyr Arg Ala Leu Leu Gln Gly Ala
247 50 55 60248
249 Pro Asp Ala Met Glu Leu Arg Glu Leu Thr Pro Trp Ala Gly Arg Pro
250 65 70 75 80